

FIG. 1A

Met Ala Asp Lys Val Leu Lys Glu Lys Arg Lys Phe Ile Arg Ser Met Gly Glu Gly Thr Ile Asn Gly Leu	17
ATG GCC GAC AAG GTC CTG AAG GAG AAG GAG AAG CTG TTT ATC CGT TCC ATG GGT ACA ATA AAT GGC TTA	25
Leu Asp Glu Leu Leu Gln Thr Arg Val Leu Asn Lys Glu Met Glu Lys Val Lys Arg Glu Asn Ala Thr Val	50
CTG GAT GAA TTA TTA CAG ACA AGG GTG CTG AAC AAG GAA GAG ATG GAG AAA GTA AAA CGT GAA AAT GCT ACA GTT	167
Met Asp Lys Thr Arg Ala Leu Ile Asp Ser Val Ile Pro Lys Gly Ala Gln Ala Cys Gln Ile Cys Ile Thr Tyr	75
ATG GAT AAG ACC CGA GCT TTG ATT GAC TCC GGT ATT CCG AAA GGG GCA CAG GCA TGC CAA ATT TGC ATC ACA TAC	242
Ile Cys Glu Glu Asp Ser Tyr Leu Ala Gly Thr Leu Gly Leu Ser Ala Asp Gln Thr Ser Gly Asn Tyr Leu Asn	100
ATT TGT GAA GAA GAC AAG GAC AGT TAC CTG GCA GGG ACG CTG GGA CTC TCA GCA GAT CAA ACA TCT GGA AAT TAC CTT AAT	317
Met Gln Asp Ser Gln Gly Val Leu Ser Phe Pro Ala Pro Gln Ala Val Gln Asp Asn Pro Ala Met Pro Thr	125
ATG CAA GAC TCT CAA GGA GTA CTT TCT TCC TCC TTT CCA GCT CCT CAG GCA GTG CAG GAC AAC CCA GCT ATG CCC ACA	392
Ser Ser Gly Ser Glu Gly Asn Val Lys Leu Cys Ser Leu Glu Glu Ala Gln Arg Ile Trp Lys Gln Lys Ser Ala	150
TCC TCA GGC TCA GAA GGG AAT GTC AAG CTT TGC TCC TCA GAA GAA GCT CAA AGG ATA TGG AAA CAA AAG TCG GCA	467
Glu Ile Tyr Pro Ile Met Asp Lys Ser Arg Thr Arg Leu Ala Leu Ile Cys Asn Glu Glu Phe Asp Ser	175
GAG ATT TAT CCA ATA ATG GAC AAG TCA AGC CGC ACA CGT CTT GCT CTC ATT ATC TGC AAT GAA GAA TTT GAC AGT	542
Ile Pro Arg Arg Thr Gly Ala Glu Val Asp Ile Thr Gly Met Thr Met Leu Leu Gln Asn Leu Gly Tyr Ser Val	200
ATT CCT AGA AGA ACT GGA GCT GAG GTT GAC ATC ACA GGC ATG ACA GGC ATG ACA ATG CTG CTA CAA AAT CTG GGG TAC AGC GTA	617
Asp Val Lys Lys Asn Leu Thr Ala Ser Asp Met Thr Thr Glu Leu Glu Ala Phe Ala His Arg Pro Glu His Lys	225
GAT GTG AAA AAA AAT CTC ACT GCT TCG GAC ATG ACT ACA GAG CTG GAG GCA TTTT GCA CAC CGC CCA GAG CAC AAG	692
Thr Ser Asp Ser Thr Phe Leu Val Phe Met Ser His Gly Ile Arg Glu Gly Ile Cys Gly Lys Lys His Ser Glu	250
ACC TCT GAC AGC ACG TTC CTG GTG TTC ATG TCT CAT GGT ATT CGG GAA GGC ATT TGT GGG AAG AAA CAC TCT GAG	767

FIG. 1B

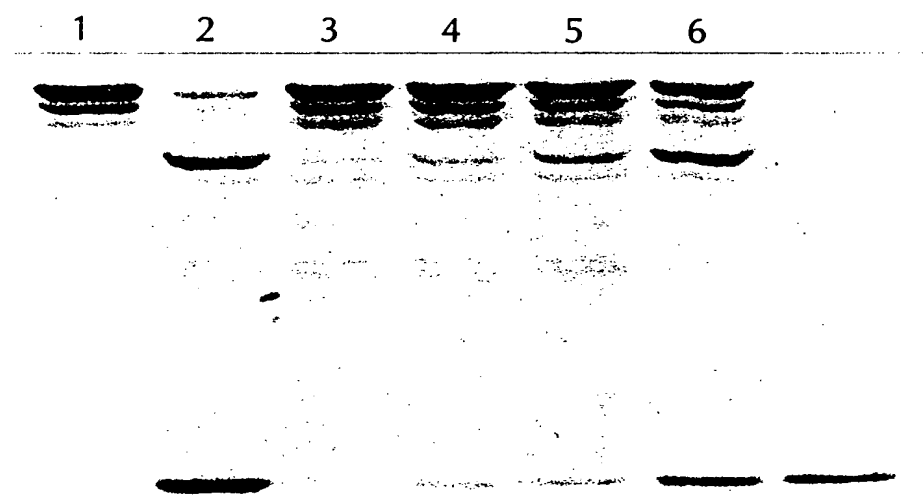
Gln Val Pro Asp Ile Leu Gln Leu Asn Ala Ile Phe Asn Met Leu Asn Thr Lys Asn Cys Pro Ser Leu Lys Asp	275
CAA GTC CCA GAT ATA CTA CAA CTC AAT GCA ATC TTT AAC ATG TTG AAT ACC AAG AAC TGC CCA AGT TTG AAG GAC	842
Lys Pro Lys Val Ile Ile Ile Gln Ala Cys Arg Gly Asp Ser Pro Gly Val Val Trp Phe Lys Asp Ser Val Gly	300
AAA CCG AAG GTG ATC ATC ATC CAG GCC TGC CGT GGT GAC AGC CCT GGT GGT GTG GTG TTT AAA GAT TCA GTA GGA	917
Val Ser Gly Asn Leu Ser Leu Pro Thr Thr Glu Glu Phe Glu Asp Asp Ala Ile Lys Lys Ala His Ile Glu Lys	325
GTT TCT GGA AAC CTA TCT TTA CCA ACT ACA GAA GAG TTT GAG GAT GAT GCT ATT AAG AAA GCC CAC ATA GAG AAG	992
Asp Phe Ile Ala Phe Cys Ser Ser Thr Pro Asp Asn Val Ser Trp Arg His Pro Thr Met Gly Ser Val Phe Ile	350
GAT TTT ATC GCT TTC TGC TCT TCC ACA CCA GAT AAT GTT TCT TGG AGA CAT CCC ACA ATG GGC TCT GTT TTT ATT	1067
Gly Arg Leu Ile Glu His Met Gln Glu Tyr Ala Cys Ser Cys Asp Val Glu Glu Ile Phe Arg Lys Val Arg Phe	375
GGA AGA CTC ATT GAA CAT ATG CAA GAA TAT GCC TGT TCC TGT GAT GTG GAG GAA ATT TTC CGC AAG GTT CGA TTT	1142
Ser Phe Glu Gln Pro Asp Gly Arg Ala Gln Met Pro Thr Thr Glu Arg Val Thr Leu Thr Arg Cys Phe Tyr Leu	400
TCA TTT GAG CAG CCA GAT GGT AGA GCG CAG ATG CCC ACC ACT GAA AGA GTG ACT TTG ACA AGA TGT TTC TAC CTC	1217
Phe Pro Gly His End	404
TTC CCA GGA CAT TAA AATAAGGAAACTGTATGAATGCTGCGGCGAGGAAGAGATCGTCTCTGTAAGGTTTTTGGATTATGCTGCT	1311
GAATAATAAACTTTTTTGTGAAATAATAAATCTGGTACAAAAAATGAAAAAATAAAAAA-3'	1374

FIG 2

Met	Ala	Glu	Val	Pro	Glu	Leu	Ala	Ser	Glu	Met	Met	Ala	Tyr	Tyr	Ser
Gly	Asn	Glu	Asp	Asp	Leu	Phe	Phe	Glu	Ala	Asp	Gyl	Pro	Lys	Gln	Met
Lys	Cys	Ser	Phe	Gln	Asp	Leu	Asp	Leu	Cys	Pro	Leu	Asp	Gly	Gly	Ile
Gln	Leu	Arg	Ile	Ser	Asp	His	His	Tyr	Ser	Lys	Gly	Phe	Arg	Gln	Ala
Ala	Ser	Val	Val	Val	Ala	Met	Asp	Lys	Leu	Arg	Lys	Met	Leu	Val	Pro
Cys	Pro	Gln	Thr	Phe	Gln	Glu	Asn	Asp	Leu	Ser	Thr	Phe	Phe	Pro	Phe
Ile	Phe	Glu	Glu	Glu	Pro	Ile	Phe	Phe	Asp	Thr	Trp	Asp	Asn	Glu	Ala
Tyr	Val	His	Asp	Ala	Pro	Val	Arg	Ser	Leu	Asn	Cys	Thr	Leu	Arg	Asp
Ser	Gln	Gln	Lys	Ser	Leu	Val	Met	Ser	Gly	Pro	Tyr	Glu	Leu	Lys	Ala
Leu	His	Leu	Gln	Gly	Gln	Asp	Met	Glu	Gln	Gln	Val	Val	Phe	Ser	Met
Ser	Phe	Val	Gln	Gly	Glu	Glu	Ser	Asn	Asp	Lys	Ile	Pro	Val	Ala	Leu
Gly	Leu	Lys	Glu	Lys	Asn	Leu	Tyr	Leu	Ser	Cys	Val	Leu	Lys	Asp	Asp
Lys	Pro	Thr	Leu	Gln	Leu	Glu	Ser	Val	Asp	Pro	Lys	Asn	Tyr	Pro	Lys
Lys	Lys	Met	Glu	Lys	Arg	Phe	Val	Phe	Asn	Lys	Ile	Glu	Ile	Asn	Asn
Lys	Leu	Glu	Phe	Glu	Ser	Ala	Gln	Phe	Pro	Asn	Trp	Tyr	Ile	Ser	Thr
Ser	Gln	Ala	Glu	Asn	Met	Pro	Val	Phe	Leu	Gly	Gly	Thr	Lys	Gly	Gly
Gln	Asp	Ile	Thr	Asp	Phe	Thr	Met	Gln	Phe	Val	Ser	Ser			

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FIG 3



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